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| IEEE 802.1 REVISION REQUEST 0161 |
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DATE: May 7, 2015  
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REQUESTED REVISION:

STANDARD: 802.1AS-REV  
CLAUSE NUMBER: 12  
CLAUSE TITLE: Media-dependent layer specification for IEEE 802.11 links

RATIONALE FOR REVISION:

In the course of developing modifications to the master state machine (Figure 12-3) and slave state machine (Figure 12-4) for the inclusion of the Fine Timing Measurement (FTM) feature in P802.1AS-Rev, several minor errors and typos were discovered. These should be fixed in 802.1AS-Rev.

PROPOSED REVISION TEXT:

a) Master state machine (Figure 12-3)

In the SAVE\_CONFIRM\_INFO state:

- (i) In the comment (Note) that says that upstreamTxTime is in units of  $2^{(-16)}$  seconds, it should be  $2^{(-16)}$  ns
- (ii) In the expression for residenceTime, the factor of  $10^9$  that multiplies paramsFromConfirm.T1 should actually be 10 (because paramsFromConfirm.T1 is in units of 10 ns, not in units of seconds).

b) Slave state machine (Figure 12-4)

In the CONSTRUCT\_MD\_SYNC\_RECEIVE\_STRUCTURE state:

- (i) The expression for neighborPropDelay currently reads:

```

neighborPropDelay =
(indParams.T4 - indParams.T1) -
neighborRateRatio * (indParams.T3 - indParams.T2)) / 2.0;

```

This is missing an open parenthesis and a factor of 10 to convert from units of 10 ns to units of ns. The correct expression is:

```

neighborPropDelay =
( ( (indParams.T4 - indParams.T1) -
neighborRateRatio * (indParams.T3 - indParams.T2)) / 2.0) * 10;

```

- (ii) The expression for MDSyncReceive.VendorSpecific.upstreamTxTime currently reads:

```

MDSyncReceive.VendorSpecific.upstreamTxTime = indParams.T2 -
neighborPropDelay/neighborRateRatio;

```

It is missing factors of  $2^{16}$  and 10 (to convert to units of  $2^{(-16)}$  ns). The correct expression is:

```
MDSyncReceive.VendorSpecific.upstreamTxTime = indParams.T2* (2^16) *(10) -  
neighborPropDelay*(2^16)/neighborRateRatio;
```

(iii) The statement: `previousIndParams = indParams` should be moved outside the if block (i.e., to just after the close brace).

IMPACT ON EXISTING NETWORKS:

There is no impact on existing networks.

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| Please attach supporting material, if any |  
| Submit to:- Glenn Parsons, Chair IEEE 802.1 |  
| and copy:- John Messenger, Vice-Chair IEEE 802.1 |  
| E-Mail: stds-802-1-maint-req@ieee.org |  
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